

PATENT ABSTRACTS OF JAPAN

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(54) PERCUTANEOUS ABSORPTION PREPARATION

(57)Abstract:

PURPOSE: To obtain a percutaneous absorption preparation capable of stably storing a water-soluble medicine hardly absorbed through the skin for a long period of time and administering the medicine at a high releasing rate and in sustained release in applying to the skin.

CONSTITUTION: This percutaneous absorption preparation is composed of a medicine releasing face of a medicine storing layer covered with a medicine release-controlling film. The medicine storing layer is composed of a segmented polyurethane having hydrophilicity, heat-sensitivity and melting property near a temperature of a human skin and expressed by the formula: R-A-(U)-F-(U)-B-R' [A and B are each a polymer of ethylene oxide or propylene oxide, etc., or their random or block copolymer; R and R' are each H or CH₃, etc., at their terminals; F is a skeleton of a part eliminated two isocyanate groups in a diisocyanate compound; (U) is urethane bonding] and used as a base material, and the medicine release-controlling film is a phase separation film in which a crosslinked gelatin phase and a non-crosslinked segmented polyurethane phase are mixed together.